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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,150	04/09/2001	Tadashi Fujieda	503.39984X00	6547
20457	7590 02/17/2004		EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			SWARTHOUT, BRENT	
SUITE 180		ART UNIT	PAPER NUMBER	
ARLINGTO	ARLINGTON, VA 22209-9889			フ
			DATE MAILED: 02/17/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/828,150	FUJIEDA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brent A Swarthout	2636				
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perior  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty d will apply and will expire SIX (6) MON the, cause the application to become AB	pply be timely filed  (30) days will be considered timely.  (HS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08	December 2003.					
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allow	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-37 is/are pending in the applicatio	Claim(s) <u>1-37</u> is/are pending in the application.					
4a) Of the above claim(s) 13,14-18/(13),20/13	4a) Of the above claim(s) 13,14-18/(13),20/13,19/13, and 21-37 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12,14-18/(1-4,12), and 20/12</u> is/ar	Claim(s) <u>1-12,14-18/(1-4,12)</u> , and <u>20/12</u> is/are rejected.					
7) Claim(s) <u>19/(1-4,12)</u> is/are objected to.						
8) Claim(s) are subject to restriction and/	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examir	ner.					
0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig     a) All b) Some * c) None of:     1. Certified copies of the priority documer     2. Certified copies of the priority documer     3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received.  Ints have been received in Apport or the comments have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)		ummary (PTO-413)				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08</li> </ul>	<del>-</del>	)/Mail Date formal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	-· -· -· -· -· -· -· -· -· -· -· -· -· -				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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1. Claims 10,12 and 19/(1-4,12) are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 10 it is unclear how balls are larger than grain of composite powder, since the composite powder contains the ball, according to the claim.

In claim 12 it is unclear what relationship the material has to the composite member.

In claim 19 "said oblate composite magnetic particles" has no antecedent basis.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
  - a. Claims 1 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takaragi et al.

Takaragi discloses a wave absorber comprising magnetic particles (col.5, lines 10-14) unified with oxide material (col.5, lines 16-19), wherein the particle size is less than 10 um (col.5, line 50). One of ordinary skill in the art would have recognized desirability of combining particles with ceramic material, since oxides are a form of ceramic matter.

3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hakata et al.

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Hakata discloses desirability of having a wave absorber (col.1, line 15) have fine metal powder unified with ceramic by enclosing the metal powder with ceramic (col.1, lines 51-61).

It would have been obvious to have the metal powder be of a magnetic substance, since wave absorbers conventionally contain magnetic material such as iron.

4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Claussen et al in view of Takaragi et al.

Claussen teaches desirability of embedding ceramic material into magnetic metal particles to create composite particles (col.1, lines 47-50).

It would have been obvious to use the composite magnetic material formed by Claussen in a wave absorber as taught by Takaragi, since Takaragi teaches desirability of using composite magnetic particles for a wave absorber, Claussen merely disclosing one conventional technique for forming such a composite substance.

5. Claims 4-8, 14-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Takaragi et al. or Hakata et al. or both Claussen et al. and Takaragi et al, further in view of Takaragi et al. or Hakata et al. or Nishihata et al.

Regarding claims 4 and 6, Takaragi teaches desirability of using iron and oxide materials (col. 5, lines 10-20).

Regarding claim 5, Hakata teaches bonding ceramic onto surface of magnetic particle (col. 1, lines 48-61).

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Regarding claim 7, Nishihata teaches dispersing composite particles in a material having a higher resistivity than the particles (col. 4, lines 53-66).

Regarding claim 8, Takaragi teaches use of a resin (abstract).

Regarding claim 14, specific volume ratio would have been an obvious matter of engineering choice, depending on what ratio best absorbed desired electromagnetic waves.

Regarding claim 15, Takaragi teaches particle size below 50nm.

Regarding claims 16 and 18, Nishihata discloses coating a particle in material of higher resistivity.

Regarding claim 17, use of specific shape and ratio would have been obvious matters of engineering choice, depending on what arrangement yielded best absorbing qualities.

Regarding claim 20, Nishihata teaches use of polymers for the high resistivity material (col.6, lines 1-39).

6. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hakata et al. in view of Darracq et al.

Darracq teaches desirability of forming a composite magnetic material using mechanical alloying of magnetic and ceramic materials (col.2, lines 20-40).

Choosing to form the composite particles of Hakata for a wave absorber using the technique as disclosed by Darracq would have been obvious in order to obtain more durable particles.

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7. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Benjamin in view of Hakata et al.

Benjamin teaches that composite particles can be formed by alloying using metallic or ceramic balls (col.1, lines 47-50; col.4, lines 3-11; col.5, lines 55-60).

It would have been obvious to form composite particles for a wave absorber as suggested by Hakata using the technique as set forth by Benjamin, in order to ensure that composite materials were securely bonded together.

8. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takaragi et al. in view of Nishihata et al.

Claim 12 is rejected for the same reasons as set forth previously in paragraph No. 5.

- 9. The restriction requirement made in the Office action mailed 10-8-03 is made final, for the reasons as previously presented in the aforementioned Office action.

  However, since claims 14-20 are at least partially dependent on elected claims 1-12, claims 14-19/(1-4,12) and 20/12 have been examined in the present Office action along with elected claims 1-12.
- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Errico, Maeda and Takatsu disclose composite particle materials.
- 10. Claim 19/(1-4,12) is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brent A Swarthout whose telephone number is 703-305-4383. The examiner can normally be reached on M-F from 6:30 to 4;00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Hofsass, can be reached on 703-305-4717. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brent A Swarthout Examiner

But Snautout

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BRENT A. SWARTHOUT PRIMARY EXAMINER